



POST-DOC POSITION ANNOUNCEMENT

- Institution:** National Institute for Space Research (INPE), São José dos Campos, Brazil
- Department:** Image Processing Division (DPI)
- Project:** e-Sensing: Big Earth observation data analytics for land use and land cover change information
- Website:** <http://www.esensing.org>
- Duration:** 15 months
- Stipend:** R\$ 6,143.40 (monthly)
- Support:** FAPESP – São Paulo Research Foundation (grant 2014/08398-6)
- Supervisor:** Prof. Dr. Gilberto Câmara and Prof. Dr. Lúbia Vinhas
- Start Date:** 02.01.2017 (expected)
- Task:** Design and development of web services for big Earth observation data

This Post Doctoral appointment will focus in the design and development of web services for big Earth observation (EO) data.

Geospatial web services are important for interoperability, integration with applications and data sharing. Given the burden of transferring large data sets over the internet, web services for big geospatial data should support server-side processing, rather than client-side retrieval.

The post-doc will work on the design and development of a web service for processing big EO data as a simple and standardised interface that can be used with a few commands. It would let users encapsulate their algorithms for server-side processing. Researchers would be able to develop and share new methods, working on a familiar R environment.

The methods should be developed in a programming language that interfaces with the SciDB array database and the R environment.



Qualification: The candidate should have a PhD in Computer Science or similar areas, obtained in the last 7 years. Candidates can apply before completing their PhD, but they should provide evidence that the doctorate will be awarded before the expected start of the fellowship.

The candidate should have experience in the R language, and knowledge of Geoinformatics and Geospatial Web Services. Familiarity with the C++ language is desirable.

Rules: The scholarship is awarded following the rules and procedures of FAPESP for post-doctoral fellowships attached to Thematic Projects. Please read the information provided by FAPESP before applying: <http://www.fapesp.br/en/5100> and <http://www.fapesp.br/en/5427>.

Support: The Image Processing Division (DPI) of Brazil's National Institute for Space Research (INPE) will provide institutional support for the awarded post-doctorate researcher. The candidate will have a working infrastructure, room, personal computer, internet connection, and full access to all INPE's facilities.

Visa: Foreign nationals are required to have a working visa to receive a post-doc fellowship in Brazil. The Image Processing Division (DPI) of Brazil's National Institute for Space Research (INPE) will provide the support for the researcher to obtain a visa, in case the candidate is not a citizen of Brazil.

How to Apply: Please send the following documents to the supervisor and project manager, Prof. Dr. Lúbia Vinhas (email: lubia.vinhas@inpe.br):

- (a) Cover letter stating your qualification and why you are applying for the position.
- (b) Short CV containing your personal data, academic qualifications, and five most relevant publications to date.
- (c) Link to personal page on sites such as Research Gate, Google Scholar or Academia.edu.
- (d) ORCID Research ID, if available.
- (e) Link to Lattes CV, if available.

Deadline: 15.10.2016